HTML 5

HTML 5 GOALS

- Tim Berners Lee
  - Incremental development.
  - Compatibility
  - Cooperate with relevant stakeholders

- W3C
  - **Compatibility** (Think of making changes twice, relevancy, pull-effect), also consider „small“ markets
  - **Utility** (solve „real“ problems, main problems, focus on users)
  - Separation of content and presentation
  - **Universal access** (e.g. viewport), Unicode
  - **Accessibility** (e.g. alternate text)

HISTORY

- Created in 1991 by Tim Berners Lee (CERN)
- Originally 18 elements

- HTML 2:
  - 1995 (RFC 1866)
  - MIME-Type = text/html
  - Proper display of information

- HTML 3.2:
  - Cooperation with big players like Microsoft and Netscape
  - Form based file uploads (e.g. file upload on Learn)
  - HTML tables (fixed headers, merging, etc.)
  - Client-side image maps
  - Internationalization
  - <script> and <style>

- HTML 4
  - Published in December 1997
  - Strict / Transitional / Frameset versions
  - Many new attributes and elements
  - Stylesheets, separation of structure and presentation
  - After change in DTD → HTML 4.01
  - Introduction of Unicode
  - Frames, scripts, events (onmouseover(), etc.

- HTML 5
  - XHTML vs HTML preceded
  - WHATWG pursues HTML HTMLWG pursues XHTML
  - 2007: Web Applications 1.0 basis to further develop HTML
  - 2009: XHTML 2.0 no longer developed
  - 2014: W3C Recommendation

WHATWG VS HTMLWG

- Web had changed (document sharing less important)
- Clean code is less important than keep things running

WHATWG (HTML)	W3C‘s HTMLWG (XHTML)
Display differently on different browsers	More compatible (flawless code)
Much more error tolerant	Query with XPath
More practical	Conversion to other formats much easier

HTML 5 ARCHITECTURE

- Doctype declaration (DTD and version information)
- Head (Metadata e.g. <title>, <style>, <script>)
- Body = visible part of the page (e.g. paragraphs, tables, headings)

NOVELTIES & OUTLOOK

- Structuring: <details>, <summary>
- Multimedia: <video>
- Interactivity: <canvas>

- HTML 5.3 Working Draft (18th of October 2018)
  - Payment Request API
  - Accessible Rich Internet Applications
  - Content Security Policy

QUIZ!